ECE 345 /ME 380 Fall 2020 M. O. A. Colaconative Quiz #3 Solins

I Pre- Clas Work.

1. 
$$roots(1) = 7/93 \ (empty) => no zeros$$
  
 $roots([17120]) = 0, -4, -3$   
 $\Rightarrow gnes = 40, -4, -3.$ 

2. Marginally stalle.

3. See CLA, rest roge.

12] Indan Wark.

2. (6)

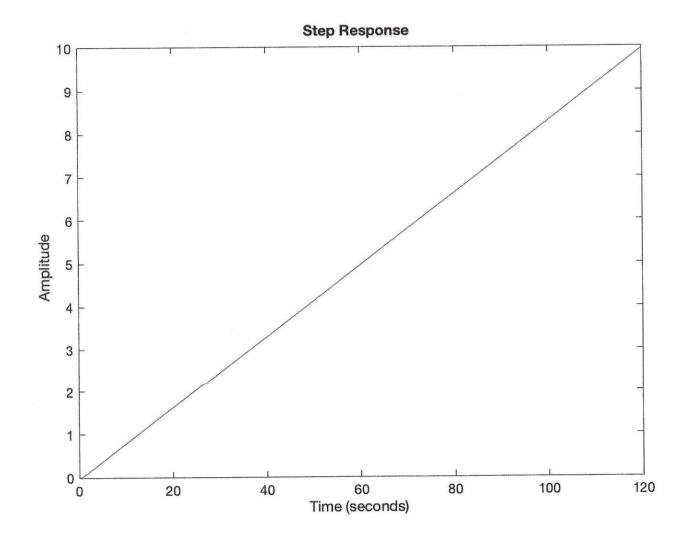
3. John danging ratio for Lowk, low danging ratio for highk.

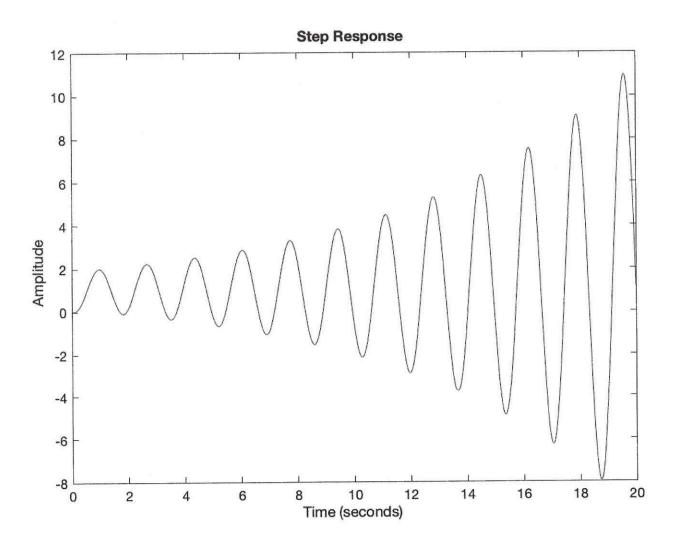
(a) is correct.

4. Humite criterion: airo is true torlk79,

a. 92-as = 7.12-k70

[84>K) for stability.





The sin tractor oscillates around I will increasing magnitude, unlike Quose I Tig 4, which show decreasing magnitude. The light source has destabilized the system.